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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **58166263**(51) Intl. Cl.: **C02F 1/40**(22) Application date: **08.09.83**

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publication: **04.04.85**(84) Designated contracting  
states:(71) Applicant: **KOBE STEEL LTD**(72) Inventor: **KITAMURA MAMORU**  
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**(54) FLOTATING SLUDGE  
SCRAPING APPARATUS**

(57) Abstract:

**PURPOSE:** To provide the titled highly efficient apparatus capable of scraping only a high concn. sludge layer, constituted by providing a horizontal plate, which is continuously opened into water at the front or trailing end part and almost parallel to a water surface, under the rotary loci of plural buckets for scraping floated sludge by rotary driving.

**CONSTITUTION:** In a sludge scraping apparatus wherein a plurality of buckets 14 are attached to a water wheel type rotor supported by a truck (not shown in the drawing) running along a sludge tank 1 and sludge flowed down from each bucket 14 when each bucket 14 having floated conc. sludge scraped therein by rotation comes to the part above a rotation center is discharged by a screw feeder through the sludge charging opening 21 of a hopper, a horizontal plate 32, which is positioned under the rotary locus of the circular arc part 28 of each bucket

14 and continuously opened into water at the front or trailing end part in an advance direction shown by the arrow A and always present under the water level so as to be made almost parallel to the water surface, is attached to the above mentioned truck. By this mechanism, only high concn. sludge 33 is scraped with good efficiency without disturbing the low concn. sludge of a sludge layer.

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